



0590
0702

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/066,506
Source: OLPE
Date Processed by STIC: 6-14-02

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

- Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
Or
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

Does Not Comply
Corrected Diskette Needed



OIKE

RAW SEQUENCE LISTING

DATE: 06/14/2002

PATENT APPLICATION: US/10/066,506

TIME: 08:12:55

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

W--> 3 /29
 7 <110> APPLICANT: Grogan, Case C.
 8 Hevey, Michael C.
 9 Schmaljohn, Alan, L.
 11 <120> TITLE OF INVENTION: Chimeric Filovirus Glycoprotein
 13 <130> FILE REFERENCE: 003/243/SAP
 15 <140> CURRENT APPLICATION NUMBER: 10/066,506
 17 <141> CURRENT FILING DATE: 2002-01-31
 19 <150> PRIOR APPLICATION NUMBER: 60/267,522
 21 <151> PRIOR FILING DATE: 2001-01-31
 23 <160> NUMBER OF SEQ ID NOS: 30
 25 <170> SOFTWARE: Apple Macintosh Microsoft Word 6.0

ERRORED SEQUENCES

27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 2252
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Artificial Sequence
 W--> 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: [chimeric protein]
 W--> 33 <400> SEQUENCE: 1
 35 atgggcggtta caggaatatt gcagttacct cgtgatcgat tcaagaggac 50
 36 atcattotitt ctttgggttaa ttatcctttt ccaaagaaca ttttccatcc 100
 37 cacttgaggt catccacaat agcacattac aggttagtga tgtcgacaaa 150
 38 ctagtttgtc gtgacaaact gtcacccaca aatcaattga gatcagttgg 200
 39 actgaatctc gaagggaatg gaggggcaac tgacgtgcca totgcaacta 250
 40 aaagatgggg cttcaggtcc ggtgtccac caaaggtggt caattatgaa 300
 41 gctggtgaat gggctgaaaa ctgctacaat cttgaaatca aaaaacctga 350
 42 cgggagtgag tgtctaccag cagcgccaga cgggattcgg ggcttcccc 400
 43 ggtgcccgtta tgtgcacaaa gtatcaggaa cgggaccgtg tgccggagac 450
 44 tttgccttcc ataaagaggg tgctttcttc ctgtatgac gacttgcttc 500
 45 cacagttatc taccgaggaa cgactttcgc tgaaggtgtc gttgcatttc 550
 46 tgatactgcc ccaagctaag aaggacttct tcagctcaca ccccttgaga 600
 47 gagccggtca atgcaacgga ggaccctct agtggctact attctaccac 650
 48 aattagatat caggctaccg gttttggaac caatgagaca gagtacttgt 700
 E--> 49 tcgaggttga caatttgacc tacgtccaac ttgaatcaag attcacacca 850
 E--> 50 cagttttctgc tccagctgaa tgagacaata tatacaagt ggaaaaggag 900
 E--> 51 caataccacg ggaaaactaa tttggaaggt caaccccgaa attgatacaa 950
 E--> 52 caatcgggga gtgggccttc tgggaaacta aaaaaaacct cactagaaaa 1000
 E--> 53 attcgcagtg aagagttgtc tttcacagtt gtatcaaacg gagccaaaaa 1050
 E--> 54 catcagtggt cagagtcagg cgcgaacttc ttccgaccca gggaccaaca 1100

this is not a protein,
 need to list any organisms
 that make up a chimera as
 source of genetic material

need to
re-number

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/066,506

DATE: 06/14/2002

TIME: 08:12:55

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

```

E--> 55 caacaactga agaccacaaa atcatggctt cagaaaattc ctctgcaatg 1150
E--> 56 gttcaagtgc acagtcaagg aagggaagct gcagtgtcgc atctaacaac 1200
E--> 57 ccttgccaca atctccacga gtccccaatc cctcacaacc aaaccaggtc 1250
E--> 58 cggacaacag cacccataat acaccctgtg ataaacttga catctctgag 1300
E--> 59 gcaactcaag ttgaacaaca tcaccgcaga acagacaacg acagcacagc 1350
E--> 60 ctccgacact ccctctgcca cgaccgcagc cggacccccca aaagcagaga 1400
E--> 61 acaccaacac gagcaagagc actgacttcc tggacccccgc caccacaaca 1450
E--> 62 agtccccaaa accacagcga gaccgctggc aacaacaaca ctcatcacca 1500
E--> 63 agataccgga gaagagagtg ccagcagcgg gaagctaggc ttaattacca 1550
E--> 64 atactattgc tggagtgcga ggactgatca caggcgggag aagaactcga 1600
E--> 65 cgatcgatcc tctggaggga aggcgacatg ttcccttttc tggatgggtt 1650
E--> 66 aataaatgct ccaattgatt ttgacccagt tccaaataca aaaacaatct 1700
E--> 67 ttgatgaatc ctctagtctt ggtgcctcgg ctgaggaaga tcaacatgcc 1850
E--> 68 tcccccaata ttagtttaac tttatcttat tttcctaata taaatgagaa 1900
E--> 69 cactgcctac tctggagaaa atgagaatga ttgtgatgca gagttaagaa 1950
E--> 70 tttggagcgt tcaggaggat gacctggccg cagggtcagc ttggataccg 2000
E--> 71 ttttttggcc ctggaattga aggactttac actgctgttt taattaaaaa 2050
E--> 72 tcaaaacaat ttggtctgca ggttgaggcg tctagccaat caaactgcc 2100
E--> 73 aatccttgga actcttattg agagtcacaa ctgaggaag aacattctcc 2150
E--> 74 ttaatcaata gacatgctat tgactttcta ctcacaagat ggggaggaac 2200
E--> 75 atgcaaagtg cttggacctg attgttgcac cgggatagaa gacttgtcca 2250
E--> 76 aaaatatttc agagcaaatt gaccaaatta aaaaggacga acaaaaagag 2300
E--> 77 gggactgggtt ggggtctggg tggtaaattg tggacatccg actggggtgt 2350
E--> 78 tcttactaac ttgggcattt tgctactatt atccatagct gtcttgattg 2400
E--> 79 ctctatcctg tatttgtcgt atctttacta aatatatcgg ataacggaat 2450
E--> 80 tc 2452

```

471 <210> SEQ ID NO: 6

472 <211> LENGTH: 681

473 <212> TYPE: PRT

474 <213> ORGANISM: Artificial Sequence

W--> 475 <220> FEATURE:

476 <223> OTHER INFORMATION: chimeric protein

W--> 477 <400> SEQUENCE: 6

```

480 Met Lys Thr Thr Cys Phe Leu Ile Ser Leu
481 1 5 10
482 Ile Leu Ile Gln Gly Thr Lys Asn Leu Pro
483 15 20
484 Ile Leu Glu Ile Ala Ser Asn Asn Gln Pro
485 25 30
486 Gln Asn Val Asp Ser Val Cys Ser Gly Thr
487 35 40
488 Leu Gln Lys Thr Glu Asp Val His Leu Met
489 45 50
490 Gly Phe Thr Leu Ser Gly Gln Lys Val Ala
491 55 60
492 Asp Ser Pro Leu Glu Ala Ser Lys Arg Trp
493 65 70
494 Ala Phe Arg Thr Gly Val Pro Pro Lys Asn
495 75 80

```

List the organisms that make up the chimera as the source of the genetic material.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/066,506

DATE: 06/14/2002

TIME: 08:12:55

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

```

496 Val Glu Tyr Thr Glu Gly Glu Glu Ala Lys
497      85      90
498 Thr Cys Tyr Asn Ile Ser Val Thr Asp Pro
499      95     100
500 Ser Gly Lys Ser Leu Leu Asp Pro Pro
501     105     110
502 Thr Asn Ile Arg Asp Tyr Pro Lys Cys Lys
503     115     120
504 Thr Ile His His Ile Gln Gly Gln Asn Pro
505     125     130
506 His Ala Gln Gly Ile Ala Leu His Leu Trp
507     135     140
508 Gly Ala Phe Phe Leu Tyr Asp Arg Ile Ala
509     145     150
510 Ser Thr Thr Met Tyr Arg Gly Lys Val Phe
511     155     160
512 Thr Glu Gly Asn Ile Ala Ala Met Ile Val
513     165     170
514 Asn Lys Thr Val His Lys Met Ile Phe Ser
515     175     180
516 Arg Gln Gly Gln Gly Tyr Arg His Met Asn
517     185     190
518 Leu Thr Ser Thr Asn Lys Tyr Trp Thr Ser
519     195     200
520 Ser Asn Gly Thr Gln Thr Asn Asp Thr Gly
521     205     210
522 Cys Phe Gly Ala Leu Gln Glu Tyr Asn Ser
523     215     220
524 Thr Lys Asn Gln Thr Cys Ala Pro Ser Lys
525     225     230
526 Ile Pro Pro Pro Leu Pro Thr Ala Arg Pro
527     235     240
528 Glu Ile Lys Leu Thr Ser Thr Pro Thr Asp
529     245     250
530 Ala Thr Lys Leu Asn Thr Thr Asp Pro Ser
531     255     260
532 Ser Asp Asp Glu Asp Leu Ala Thr Ser Gly
533     265     270
534 Ser Gly Ser Gly Glu Arg Glu Pro His Thr
535     275     280
536 Thr Ser Asp Ala Val Thr Lys Gln Gly Leu
537     285     290
538 Ser Ser Thr Met Pro Pro Thr Pro Ser Pro
539     295     300
540 Gln Pro Ser Thr Pro Gln Gln Gly Gly Asn
541     305     310
542 Asn Thr Asn His Ser Gln Asp Ala Val Thr
543     315     320
544 Glu Leu Asp Lys Asn Asn Thr Thr Ala Gln

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/066,506

DATE: 06/14/2002

TIME: 08:12:55

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

545		325		330
546	Pro Ser Met Pro	Pro His Asn Thr Thr Thr		
547		335		340
548	Ile Ser Thr Asn	Asn Thr Ser Lys His Asn		
549		345		350
550	Phe Ser Thr Leu	Ser Ala Pro Leu Gln Asn		
551		355		360
552	Thr Thr Asn Asp	Asn Thr Gln Ser Thr Ile		
553		365		370
554	Thr Glu Asn Glu	Gln Thr Ser Ala Pro Ser		
555		375		380
556	Ile Thr Thr Leu	Pro Pro Thr Gly Asn Pro		
557		385		390
558	Thr Thr Ala Lys	Ser Thr Ser Ser Lys Lys		
559		395		400
560	Gly Pro Ala Thr	Thr Ala Pro Asn Thr Thr		
561		405		410
562	Asn Glu His Phe	Thr Ser Pro Pro Pro Thr		
563		415		420
564	Pro Ser Ser Thr	Ala Gln His Leu Val Tyr		
565		425		430
566	Phe Arg Arg Lys	Arg Ser Ile Phe Trp Lys		
567		435		440
568	Glu Gly Asp Ile	Phe Pro Phe Leu Asp Gly		
E--> 569		455		450
570	Leu Ile Asn Thr	Glu Ile Asp Phe Asp Pro		
E--> 571		465		460
572	Ile Pro Asn Thr	Glu Thr Ile Phe Asp Glu		
E--> 573		475		470
574	Ser Pro Ser Phe	Asn Thr Ser Thr Asn Glu		
E--> 575		485		480
576	Glu Gln His Thr	Pro Pro Asn Ile Ser Leu		
E--> 577		495		490
578	Thr Phe Ser Tyr	Phe Pro Asp Lys Asn Gly		
E--> 579		505		500
580	Asp Thr Ala Tyr	Ser Gly Glu Asn Glu Asn		
E--> 581		515		510
582	Asp Cys Asp Ala	Glu Leu Arg Ile Trp Ser		
E--> 583		525		520
584	Val Gln Glu Asp	Asp Leu Ala Ala Gly Leu		
E--> 585		535		530
586	Ser Trp Ile Pro	Phe Phe Gly Pro Gly Ile		
E--> 587		545		540
588	Glu Gly Leu Tyr	Thr Ala Gly Leu Ile Lys		
E--> 589		555		550
590	Asn Gln Asn Asn	Leu Val Cys Arg Leu Arg		
E--> 591		565		560
592	Arg Leu Ala Asn	Gln Thr Ala Lys Ser Leu		
E--> 593		575		570

need to
re-number

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/066,506

DATE: 06/14/2002

TIME: 08:12:55

Input Set : A:\Sequ nce.txt

Output Set: N:\CRF3\06142002\J066506.raw

```

      594 Glu Leu Leu Leu Arg Val Thr Thr Glu Glu
E--> 595                               585           580
      596 Arg Thr Phe Ser Leu Ile Asn Arg His Ala
E--> 597                               595           590
      598 Ile Asp Phe Leu Leu Thr Arg Trp Gly Gly
E--> 599                               605           600
      600 Thr Cys Lys Val Leu Gly Pro Asp Cys Cys
E--> 601                               615           610
      602 Ile Gly Ile Glu Asp Leu Ser Lys Asn Ile
E--> 603                               625           620
      604 Ser Glu Gln Ile Asp Lys Ile Arg Lys Asp
E--> 605                               635           630
      606 Glu Gln Lys Glu Glu Thr Gly Trp Gly Leu
E--> 607                               645           640
      608 Gly Gly Lys Trp Trp Thr Ser Asp Trp Gly
E--> 609                               655           650
      610 Val Leu Thr Asn Leu Gly Ile Leu Leu Leu
E--> 611                               665           660
      612 Leu Ser Ile Ala Val Leu Ile Ala Leu Ser
E--> 613                               675           670
      614 Cys Ile Cys Arg Ile Phe Thr Lys Tyr Ile
E--> 615                               685           680
      616 Gly

```

VERIFICATION SUMMARY

DATE: 06/14/2002

PATENT APPLICATION: US/10/066,506

TIME: 08:12:56

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

L:3 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:
L:31 M:283 W: Missing Blank Line separator, <220> field identifier
L:33 M:283 W: Missing Blank Line separator, <400> field identifier
L:49 M:254 E: No. of Bases conflict, LENGTH:Input:850 Counted:750 SEQ:1
M:254 Repeated in SeqNo=1
L:87 M:283 W: Missing Blank Line separator, <220> field identifier
L:89 M:283 W: Missing Blank Line separator, <400> field identifier
L:246 M:283 W: Missing Blank Line separator, <220> field identifier
L:248 M:283 W: Missing Blank Line separator, <400> field identifier
L:292 M:283 W: Missing Blank Line separator, <220> field identifier
L:294 M:283 W: Missing Blank Line separator, <400> field identifier
L:424 M:283 W: Missing Blank Line separator, <220> field identifier
L:426 M:283 W: Missing Blank Line separator, <400> field identifier
L:475 M:283 W: Missing Blank Line separator, <220> field identifier
L:477 M:283 W: Missing Blank Line separator, <400> field identifier
L:569 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:6
M:332 Repeated in SeqNo=6
L:622 M:283 W: Missing Blank Line separator, <220> field identifier
L:624 M:283 W: Missing Blank Line separator, <400> field identifier
L:673 M:283 W: Missing Blank Line separator, <220> field identifier
L:675 M:283 W: Missing Blank Line separator, <400> field identifier
L:820 M:283 W: Missing Blank Line separator, <220> field identifier
L:822 M:283 W: Missing Blank Line separator, <400> field identifier
L:871 M:283 W: Missing Blank Line separator, <220> field identifier
L:873 M:283 W: Missing Blank Line separator, <400> field identifier
L:1017 M:283 W: Missing Blank Line separator, <220> field identifier
L:1019 M:283 W: Missing Blank Line separator, <400> field identifier
L:1068 M:283 W: Missing Blank Line separator, <220> field identifier
L:1070 M:283 W: Missing Blank Line separator, <400> field identifier
L:1213 M:283 W: Missing Blank Line separator, <220> field identifier
L:1215 M:283 W: Missing Blank Line separator, <400> field identifier
L:1264 M:283 W: Missing Blank Line separator, <220> field identifier
L:1266 M:283 W: Missing Blank Line separator, <400> field identifier
L:1410 M:283 W: Missing Blank Line separator, <220> field identifier
L:1412 M:283 W: Missing Blank Line separator, <400> field identifier
L:1420 M:283 W: Missing Blank Line separator, <220> field identifier
L:1422 M:283 W: Missing Blank Line separator, <400> field identifier
L:1430 M:283 W: Missing Blank Line separator, <220> field identifier
L:1432 M:283 W: Missing Blank Line separator, <400> field identifier
L:1440 M:283 W: Missing Blank Line separator, <220> field identifier
L:1442 M:283 W: Missing Blank Line separator, <400> field identifier
L:1451 M:283 W: Missing Blank Line separator, <220> field identifier
L:1453 M:283 W: Missing Blank Line separator, <400> field identifier
L:1462 M:283 W: Missing Blank Line separator, <220> field identifier
L:1464 M:283 W: Missing Blank Line separator, <400> field identifier
L:1472 M:283 W: Missing Blank Line separator, <220> field identifier
L:1474 M:283 W: Missing Blank Line separator, <400> field identifier
L:1482 M:283 W: Missing Blank Line separator, <220> field identifier

VERIFICATION SUMMARY

DATE: 06/14/2002

PATENT APPLICATION: US/10/066,506

TIME: 08:12:56

Input Set : A:\Sequence.txt

Output Set: N:\CRF3\06142002\J066506.raw

L:1484 M:283 W: Missing Blank Line separator, <400> field identifier
L:1492 M:283 W: Missing Blank Line separator, <220> field identifier
L:1494 M:283 W: Missing Blank Line separator, <400> field identifier
L:1502 M:283 W: Missing Blank Line separator, <220> field identifier
L:1504 M:283 W: Missing Blank Line separator, <400> field identifier
L:1512 M:283 W: Missing Blank Line separator, <220> field identifier
L:1514 M:283 W: Missing Blank Line separator, <400> field identifier